

Cardiovascular Sonography

Associate in Science Degree Program

Contact Hours: 2,100

Semester Credits: 85.5

Instructional Weeks – Full Time: 80

Average Time to Complete – Full Time: 20 Months

Program Overview

Cardiovascular sonographers use special imaging equipment that directs sound waves into a patient's body (in a procedure commonly known as an ultrasound, sonogram, or echocardiogram) to assess and diagnose various medical conditions.

The Cardiovascular Sonography curriculum integrates didactic and clinical instruction with increasing expectations at each level. Clinical sites utilized by the program are geographically dispersed. Students may have to travel outside of the local area for clinical placements.

Program Delivery

The Cardiovascular Sonography program is delivered in a blended format. Courses will be delivered entirely online, entirely on-ground or with an appropriate blend of both online and on-ground hours in the same course. Of the 2,100 program hours, a maximum of 700 course hours (33.3%) may be offered online (including general education courses). Campuses may have the option to deliver general education courses either online or on-ground, depending on local needs and availability specific time, regardless of their eligibility status upon enrollment.

Program Objectives

To prepare competent entry-level cardiac sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the following concentration(s) it offers:

- Adult Cardiac Sonography

Graduates of this program will develop skills to:

- Be clinically competent to perform appropriate procedures and record anatomic, pathologic, and/or physiologic data;
- Apply critical thinking and problem-solving skills to exercise discretion and judgement in performance of diagnostic sonography;
- Demonstrate appropriate communication skills; and
- Demonstrate professionalism and growth in the profession.

| Course # | Course Title | Theory Hours (Ground/Online) | Lab Hours (Ground/Online) | Clinical Hours (Ground/Online) | Semester Credit Hours |
|----------|-------------------------------------|---------------------------------|------------------------------|-----------------------------------|--------------------------|
| BIOL1405 | Anatomy & Physiology | 60 (60 / 0) | 0 | 0 | 4 |
| COMM1310 | Elements of Human Communication | 45 (0 / 45) | 0 | 0 | 3 |
| CVSG1210 | Scanning Lab I | 0 | 80 (65 / 15) | 0 | 2.5 |
| CVSG1240 | Echocardiography Scanning Lab I | 0 | 80 (65 / 15) | 0 | 2.5 |
| CVSG1340 | Cardiovascular Pathology | 45 (20 / 25) | 0 | 0 | 3 |
| CVSG1640 | Echocardiography I | 90 (20 / 70) | 0 | 0 | 6 |
| CVSG2250 | Echocardiography Scanning Lab II | 0 | 80 (65 / 15) | 0 | 2.5 |

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|--------------|---------------------------------------|----------------------|---------------------|--------------------|-------------|
| CVSG2251 | Cardiovascular Pharmacology | 30 (0 / 30) | 0 | 0 | 2 |
| CVSG2280 | Cardiovascular Registry Review | 30 (20 / 10) | 0 | 0 | 2 |
| CVSG2360 | Vascular Sonography I | 30 (5 / 25) | 30 (30 / 0) | 0 | 3 |
| CVSG2370 | Vascular Sonography II | 30 (5 / 25) | 30 (30 / 0) | 0 | 3 |
| CVSG2760 | Cardiovascular Clinical Education I | 0 | 0 | 320 (320 / 0) | 7 |
| CVSG2770 | Cardiovascular Clinical Education II | 0 | 0 | 320 (320 / 0) | 7 |
| CVSG2780 | Cardiovascular Clinical Education III | 0 | 0 | 320 (320 / 0) | 7 |
| CVSG2850 | Echocardiography II | 120 (20 / 100) | 0 | 0 | 8 |
| DMSG1810 | Physics & Instrumentation | 120 (60 / 60) | 0 | 0 | 8 |
| ECGY1330 | Electrophysiology | 30 (5 / 25) | 30 (30 / 0) | 0 | 3 |
| ENGL1310 | English Composition I | 45 (0 / 45) | 0 | 0 | 3 |
| HPRS1320 | Foundations for Health Professionals | 45 (0 / 45) | 0 | 0 | 3 |
| MATH1320 | College Algebra | 45 (0 / 45) | 0 | 0 | 3 |
| PHYS1311 | Introductory Physics | 45 (45 / 0) | 0 | 0 | 3 |
| Total | | 810 (260/550) | 330 (285/45) | 960 (960/0) | 85.5 |

These courses may be offered entirely online or entirely on-ground at the campus.